

Request for Action/ Action Item summary for the DSS-65 Downtime Readiness Review (DTRR) held December 14, 2004.

Accepted RFA's

1. **Concern:** Whether to schedule additional two weeks of downtime to accommodate ACR software testing and delayed start of DSS-65ACR within downtime.
Recommendation: Add 2 weeks. Include "go"/"no-go" decision points in schedule to assess S/W status before starting ACR H/W installation.
Requested by: John Cucchissi
Assigned to: John Cucchissi
Due Date: 01/04/2005
Status: Closed 12/15/2004
Response: The additional two weeks has been requested.

2. **Concern:** Need to define who signs off on MSA's in new IND organization.
Recommendation: None.
Requested by: Dave Recce
Assigned to: Wayne Sible
Due Date: 01/04/2005
Status: Open
Response:

3. **Concern:** Station location, horizon and transmitter mask is not planned to be published in an office document that is retrievable and referenceable.
Recommendation: The station location, horizon and transmitter masks should be officially reviewed and published in a retrievable and referencable source. Measurement method, procedure and results should be officially reviewed.
Requested by: Art Freiley
Assigned to: Gil Roldan
Due Date: 07/03/2005
Status: Open
Response:

4. **Concern:** What is the maximum wind speed with the antenna on the trailer (not mechanically attached to foundation or anchors) that assembly is stable, such that if wind speed increases, the antenna can be moved by the wind?

What is mitigation for this situation?

Recommendation: None

Requested By: Fred Battle

Assigned to: Ben Saldua

Due Date: 01/04/2005

Status: Closed

Response: The max wind speed limit at which the antenna could be "moved uncontrollably by the wind" is 60 mph. The Relocation plan calls out a maximum wind speed of 18.6mph (30 kmph) at which time the antenna must be secured to the ground and movement on the trailers stopped. The existing DSS-65 Relocation Plan with its Safety Section has the mitigation measures and wind speed advisories & cautions, if followed will protect DSS-65 during the relocation move process and reinstallation on the new foundation.

5. **Concern:** Need to ensure any horizon masks, transmitter masks, SSFs, tables etc., are updated and provided to NSS in a timely fashion.

Recommendation: None.

Requested by: Jim Buckley

Assigned to: Gil Roldan and Mike Wert

Due Date: 06/03/2005

Status: Open

Response:

6. **Concern:** RF antenna calibration pre-downtime measurements were not presented. This data should be reviewed to establish performance values and curves. This/these results should have been presented in this review.

Recommendation: Confirm that pre-downtime data are adequate to assess RF performance.

Requested by: Art Freiley

Assigned to: John Cucchissi

Due Date: 01/04/2005

Status: Closed

Response: Manuel Franco, who performed the baseline measurements, reviewed the preliminary results with Art Freiley and Steve Slobin on December 17, 2004, and again on January 11, 2005, with John Cucchissi, Paul Cramer, Jay Breidenthal, and David Rochblatt also in attendance. Four charts were presented for DSS-65 X-band RCP: (1) vacuum gain, (2) vacuum efficiency, (3) low noise tipping curve, (4) diplexed tipping curve, and one chart for the S-band RCP low noise tipping curve. Pointing data were collected but not presented. All plotted results included the 810-005 performance for reference, although the actual measured results constitute the baseline against which the post-relocation performance will be compared. A complete report will be issued by Manuel Franco. However, at this point, it is the consensus that the data collected are of sufficient quantity, range and fidelity to characterize and baseline the RF performance of DSS-65. No further RF baseline data are required before the antenna downtime commences on 31 January 2005.

7. **Concern:** The ACR go/no-go decision is going to be delayed until February 22, 2005 or by the end of March. If the final decision is no-go and the Mark IV controllers should remain in place, then, APA and ACS will have incorrect station coordinates latitude and longitude due to the new antenna location. Analysis of the potential pointing errors should be made and determine whether they are acceptable or not. If the result is no, this may imply a new APA S/W version and a new ACS firmware version to correct the station location.

Recommendation: None.

Requested by: Jim Buckley

Assigned to: Gil Roldan

Due Date: 01/03/2005

Status: Open

Response:

Advisory RFA's

1. **Concern:** Do the stations feel they have received sufficient training to install the new USC Modkits by themselves.
Recommendation: Complete training and address in DDR.
Requested by: Sherill Hampton
Comment: Each Complex receives O&M training by CDE & OE (confirmed at DDR.) Installation instructions provided in Modkit. Also, have CDE & OE available for consultation.
Assigned to: Leslie Manalo
2. **Concern:** For each USC downtime, an OCR will need to be scheduled.
Recommendation:
Requested by: Jim Buckley
Comment: Not germane to this review. Task will participate in OCR at program office request. DDOSO should schedule
Assigned to: Jim Buckley
3. **Concern:** Will need to have a DSS-65 OCR a few days prior to the scheduled return to service on 07/03/2005.
Recommendation:
Requested by: Jim Buckley
Comment: Not germane to this review. Task will participate in OCR at program office request. DDOSO should schedule
Assigned to: Jim Buckley

Rejected RFA's

1. **Concern:** CCG common configuration: DSS 43 and 63 block diagram displays are not conforming to the requirement of presenting common configurations and uniform designs. Diagrams between stations are not the same and do not conform to the interface agreement and standard term agreed upon. Current displays and labels are confusing to customers and stations.
Recommendation: displays and tables need to be changed to agree with DSS-14 displays to the maximum extent possible.
Requested by: Art Freiley
Comment: Not germane to this review. Also, this is a design & configuration issue with pre-existing H/W. USC S/W accommodates design extant at each antenna.